

Amendment

a microprocessor configured to process an output signal from said image pickup device; and

a memory configured to store said output signal.

72. (Amended) An optical apparatus comprising:

an optical system comprising an optical surface which is rotationally asymmetrical with regard to an optical axis and an optical element which has a variable optical characteristic;

an image pickup device constructed and arranged to pick up an image formed by said optical system;

a display function for displaying an image which is picked up;

a microprocessor configured to process an output signal from said image pickup device;

a memory configured to store said output signal; and

a view finder function for determining an image pickup range.

73. (Amended) An optical apparatus comprising:

an optical system comprising an optical surface which is rotationally asymmetrical with regard to an optical axis and a reflective type optical element which has a variable optical characteristic;

an image pickup device constructed and arranged to pick up an image formed by said optical system;

a display function for displaying an image which is picked up;

a microprocessor configured to process an output signal from said image pickup device;

a memory configured to store said output signal; and

a view finder function for determining an image pickup range.

74. (Amended) An optical apparatus comprising:

an optical system comprising a reflective type optical element which has an optical surface asymmetrical with regard to an optical axis and has a variable optical characteristic;

an image pickup device constructed and arranged to pick up an image formed by said optical system;

a display function for displaying an image which is picked up;

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a microprocessor configured to process an output signal from said image pickup device;

a memory configured to store said output signal; and

a view finder function for determining an image pickup range.

75. (Amended) An optical apparatus comprising:

an optical system comprising an optical surface which is rotationally asymmetrical with regard to an optical axis and an oblique incidence type reflective optical element which has a variable optical characteristic;

an image pickup device constructed and arranged to pick up an image formed by said optical system;

a display device constructed and arranged to display an image which is picked up;

a microprocessor configured to process an output signal from said image pickup device;

a memory configured to store said output signal; and

a view finder function for determining an image pickup range.

76. (Amended) An optical apparatus comprising:

an optical system comprising an optical surface which is rotationally asymmetrical with regard to an optical axis and a folded optical axis;

an image pickup device constructed and arranged to pick up an image formed by said optical system;

a display function for displaying an image which is picked up;

a microprocessor configured to process an output signal from said image pickup device;

a memory configured to store said output signal; and

a view finder function for determining an image pickup range.

77. (Amended) An optical apparatus to be manufactured by lithography comprising:

an optical system comprising an optical surface which is rotationally asymmetrical with regard to an optical axis and an optical element which has a variable optical characteristic;

an image pickup device constructed and arranged to pick up an image formed by said optical system;

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a display function for displaying an image which is picked up;
a microprocessor configured to process an output signal from said image pickup device;
a memory configured to store said output signal; and
a view finder function for determining an image pickup range.

84. (Amended) A telephone device comprising an optical apparatus, said optical apparatus comprising:

an optical system comprising an optical surface which is rotationally asymmetrical with regard to an optical axis and an optical element which has a variable optical characteristic;

an image pickup device constructed and arranged to pick up an image formed by said optical system;

a display function for displaying an image which is picked up;

a microprocessor configured to process an output signal from said image pickup device; and

a memory configured to store said output signal.

85. (Amended) A telephone device comprising an optical apparatus, said optical apparatus comprising:

an optical system comprising an optical surface which is rotationally asymmetrical with regard to an optical axis and a reflective type optical element which has a variable optical characteristic;

an image pickup device constructed and arranged to pick up an image formed by said optical system;

a display function for displaying an image which is picked up;

a microprocessor configured to process an output signal from said image pickup device; and

a memory configured to store said output signal.

86. (Amended) A telephone device comprising an optical apparatus, said optical apparatus comprising:

an optical system comprising a reflective type optical element which has an optical surface asymmetrical with regard to an optical axis and has a variable optical characteristic;

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an image pickup device constructed and arranged to pick up an image formed by said optical system;

a display function for displaying an image which is picked up;

a microprocessor configured to process an output signal from said image pickup device; and

a memory configured to store said output signal.

87. (Amended) A telephone device comprising an optical apparatus, said optical apparatus comprising:

an optical system comprising an optical surface which is rotationally asymmetrical with regard to an optical axis and an oblique incidence type reflective optical element which has a variable optical characteristic;

an image pickup device constructed and arranged to pick up an image formed by said optical system;

a display function for displaying an image which is picked up;

a microprocessor configured to process an output signal from said image pickup device; and

a memory configured to store said output signal.

88. (Amended) A telephone device comprising an optical apparatus, said optical apparatus comprising:

an optical system comprising an optical surface which is rotationally asymmetrical with regard to an optical axis and a folded optical axis;

an image pickup device constructed and arranged to pick up an image formed by said optical system;

a display function for displaying an image which is picked up;

a microprocessor configured to process an output signal from said image pickup device; and

a memory configured to store said output signal.

89. (Amended) A telephone device comprising an optical apparatus to be manufactured by lithography, said optical apparatus comprising:

an optical system comprising an optical surface which is rotationally asymmetrical with regard to an optical axis and an optical element which has a variable optical characteristic;

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an image pickup device constructed and arranged to pick up an image formed by said optical system;

a display function for displaying an image which is picked up;

a microprocessor configured to process an output signal from said image pickup device; and

a memory configured to store said output signal.

See the attached Appendix for the changes made to effect the above claims.